

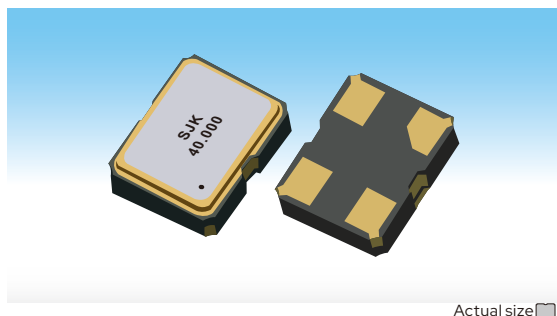
# TCXO / Temperature Compensated Crystal Oscillator

7W Series SMD 2520 TCXO

10~60MHz

O: CMOS

Size: 2.5×2.0×0.8mm



## Features

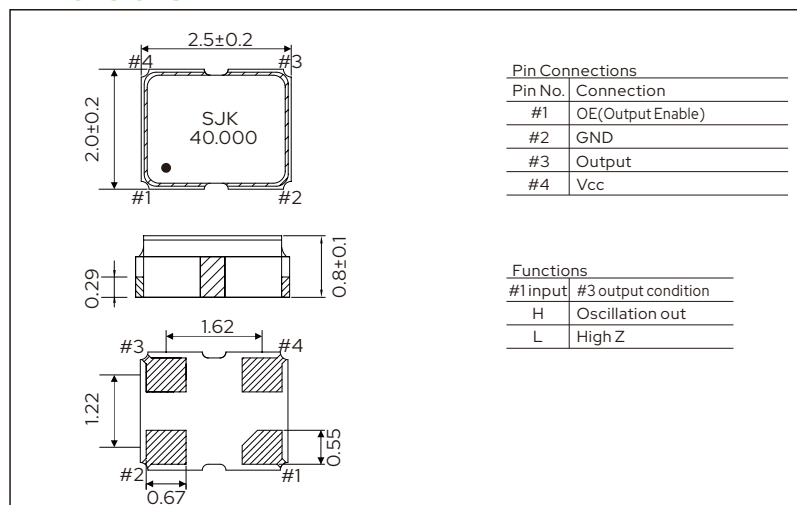
- 2520 size ultra miniature and lightweight SMD TCXO
- Low voltage operation
- Single package structure
- CMOS output, frequency range: 10MHz~60MHz
- Low phase noise
- Application for GPS /GNSS, Mobile phone, Wearable device, IoT, Telecommunications, Industrial radio communications, etc
- RoHS Compliant /Pb Free



## Standard Specifications

| Item                                      | Type               | 7W Series SMD 2520 TCXO          |
|-------------------------------------------|--------------------|----------------------------------|
| Output Type                               |                    | CMOS                             |
| Output Load                               |                    | 15pF                             |
| Frequency Range                           |                    | 10MHz~60MHz                      |
| Supply Voltage                            |                    | 1.8V /2.5V /3.3V                 |
| Current Consumption                       |                    | 10mA max.                        |
| Stand-by Current                          |                    | 3μA max.                         |
| Frequency Stability                       | vs. Tolerance      | ±2.0ppm max. (After 2 reflows)   |
|                                           | vs. Temperature    | ±2.5ppm~±10ppm max.              |
|                                           | vs. Supply Voltage | ±0.3ppm max. (Vcc±5%)            |
|                                           | vs. Load Variation | ±0.3ppm max. (15pF±5%)           |
|                                           | vs. Aging          | ±1.0ppm max./year                |
| Start-up Time                             |                    | 5.0ms max.                       |
| 0 Level Output Voltage (V <sub>OL</sub> ) |                    | Vcc×0.1 max.                     |
| 1 Level Output Voltage (V <sub>OH</sub> ) |                    | Vcc×0.9 min.                     |
| Rise and Fall Time                        |                    | 10ns max.                        |
| Symmetry                                  |                    | 45%~55%                          |
| Phase Noise @50MHz                        | Offset 10Hz        | -85dBc/Hz                        |
|                                           | Offset 100Hz       | -111dBc/Hz                       |
|                                           | Offset 1KHz        | -133dBc/Hz                       |
|                                           | Offset 10KHz       | -149dBc/Hz                       |
| Operating Temperature Range               |                    | -30~+85°C, -40~+85°C, or specify |
| Storage Temperature Range                 |                    | -55~+125°C                       |

## Dimensions



## Recommended Land Pattern [mm]

